ISO-SAE 21434 – UNECE TF CS/OTA
Update on Liaison

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Standardizing Cybersecurity Engineering
Goals of the Initiative

The future standard shall…

1 Give uniform definition of notions relevant to automotive security

2 Specify minimum requirements on security engineering process and activities and define – wherever possible – criteria for assessment

3 Describe the state of the art of security engineering in automotive E/E development

Targeted effects on automotive industry

› Common and internationally agreed understanding of automotive cybersecurity engineering

› Sufficient rigor as reference for legislative institutions; ensure legal certainty

ISO-SAE 21434 Cybersecurity Engineering General Outline and Status Update

VDA

Current Status

› First consolidated document

› Preparing next international Meeting (next week)

› Current Outline-Documents available internally

Next Steps

› Preparation of Working Draft (March 2018)

› Preparation of Committee Draft (October 2018)

General Outline (Draft)

1   Scope
2   Normative references
3   Terms and Definitions
4   Introduction
5   Cybersecurity Engineering – General Requirements
6   Cybersecurity Management – Govern Process
7   Cybersecurity Management – Engage Process
8   Cybersecurity Engineering – Develop Process
9   Cybersecurity in Production & Post-production
10 Appendixes

ISO 21434 Cybersecurity Engineering
Software Updates - Outline

VDA

9.1 General concepts
    9.1.1 Update types 💬
    9.1.2 Best practices for addressing issues ✗
    9.1.3 Creation of an Update
9.2 Ability to be updated
    9.2.1 General
    9.2.2 Update rollback ✗
9.3 Roles and Responsibilities 🚫
9.4 Remotely applying an update ✗
    9.4.1 General
    9.4.2 Ability to self-test the update
    9.4.3 Ability to restore the last known good state
    9.4.4 Circumstances under which the update can be applied

9.5 Update release process ✗
    9.5.1 General concepts
    9.5.2 Applying an Update
    9.5.3 Security requirements on the update 💬
    9.5.4 Additional requirements on the update
    9.5.5 Compatibility
9.6 Update monitoring
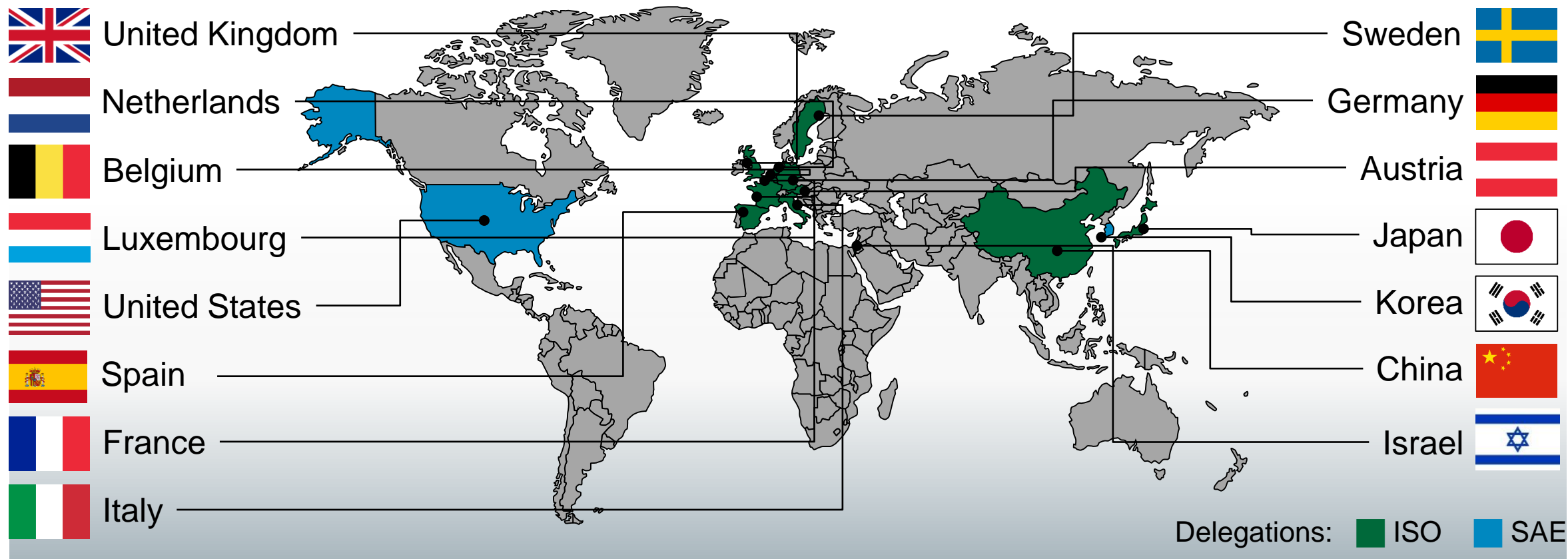   9.6.1 Considerations
    9.6.2 Maintain vehicle information
9.7 **End of support** 💬
    9.7.1 General
    9.7.2 Handling End-of-Support
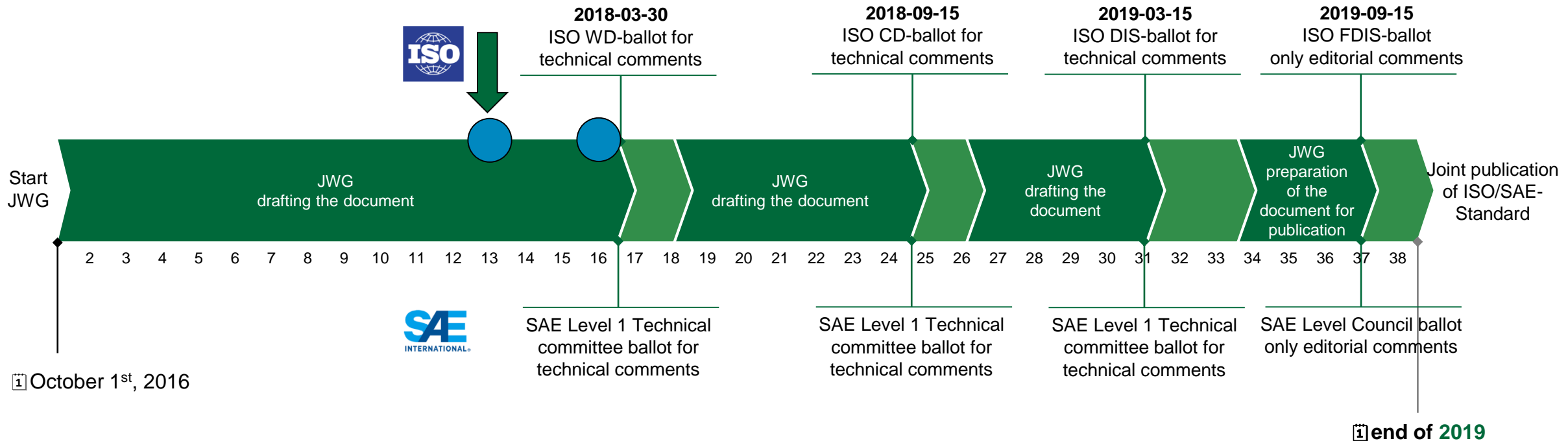
Road Vehicles – Cybersecurity Engineering National Delegations

United Kingdom
Netherlands
Belgium
Luxembourg
United States
Spain
France
Italy

Sweden
Germany
Austria
Japan
Korea
China
Israel

Delegations: ISO SAE

Road Vehicles – Cybersecurity Engineering
ISO/SAE 21434 – Overall Schedule

VDA

2018-03-30
ISO WD-ballot for technical comments

2018-09-15
ISO CD-ballot for technical comments

2019-03-15
ISO DIS-ballot for technical comments

2019-09-15
ISO FDIS-ballot only editorial comments

Start JWG

JWG drafting the document

JWG drafting the document

JWG drafting the document

JWG preparation of the document for publication

Joint publication of ISO/SAE-Standard

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

SAE Level 1 Technical committee ballot for technical comments

SAE Level 1 Technical committee ballot for technical comments

SAE Level 1 Technical committee ballot for technical comments

SAE Level Council ballot only editorial comments

ⓘ October 1st, 2016

ⓘ **end of 2019**

Legend:

Drafting Phase | Balloting Phase

ISO Abbrevations:

WD: Working Draft (JWG Level)
CD: Committee Draft (ISO/TC(/SC) Level)
DIS: Draft International Standard
FDIS: Final Draft International Standard